

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283461

Luminaire Tested: **LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 665.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

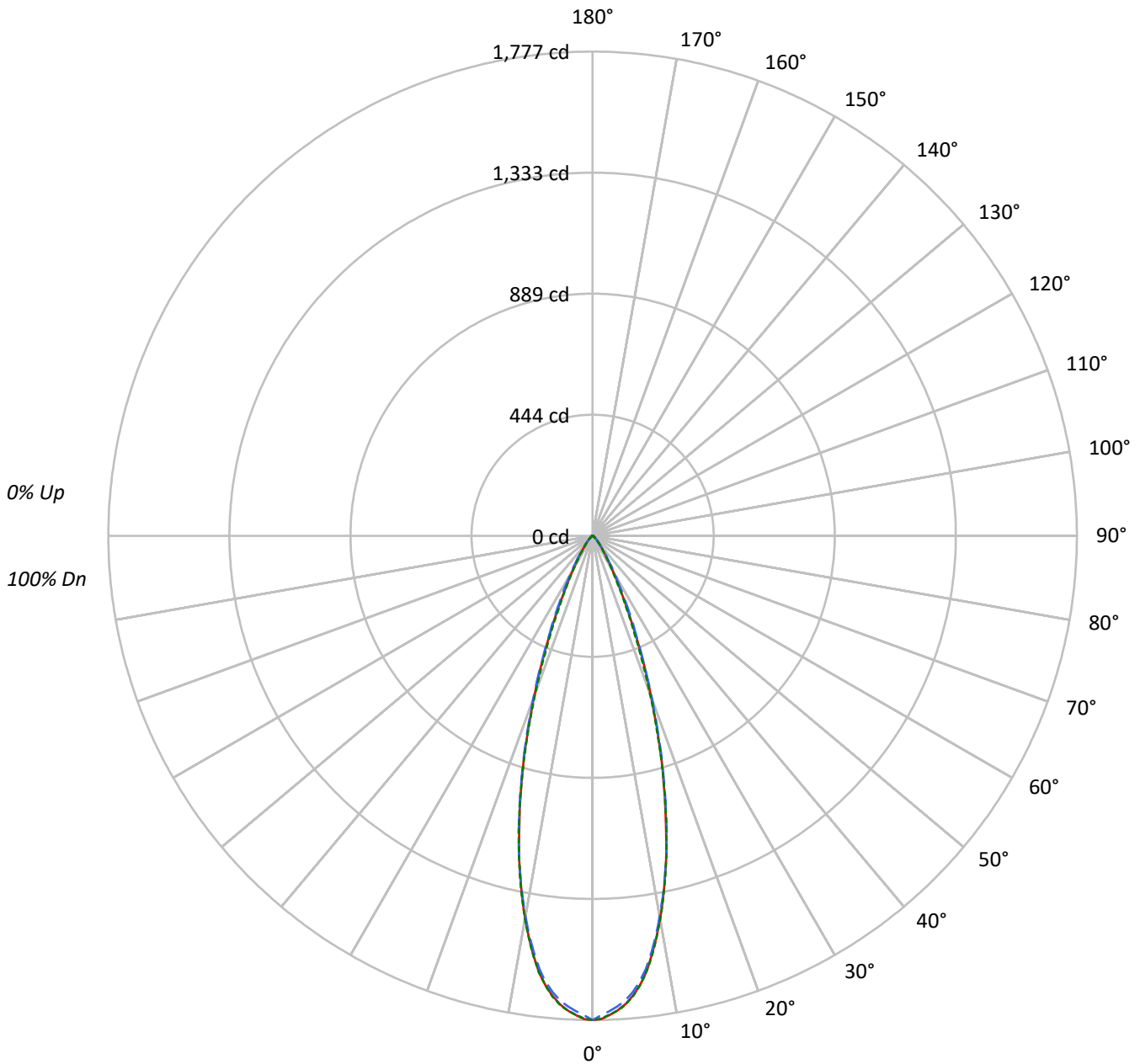
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	876901	876901	876901
5°	839195	832905	840483
10°	714938	710479	715690
15°	526957	530379	528694
20°	328980	335018	321735
25°	169951	182308	161404
30°	81465	93371	77648
35°	42039	46557	39329
40°	23572	24795	22348
45°	14303	14303	13815
50°	7445	9134	7445
55°	3871	6107	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	23.0
10°-20°	280.8	42.2
20°-30°	152.2	22.9
30°-40°	48.9	7.3
40°-50°	16.7	2.5
50°-60°	5.8	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	586.0	88.0
0°-40°	634.8	95.4
0°-60°	657.3	98.8
0°-90°	665.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1694	1684	1682	1699	1697	153
15°	1032	1040	1038	1043	1035	280
25°	312	326	335	312	296	150
35°	70	73	77	70	65	47
45°	20	21	20	20	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.4	1777.4	1777.4	1777.4	1777.4
1°	1774.4	1761.7	1759.9	1776.3	1772.5
2°	1760.2	1748.3	1746.4	1762.8	1759.5
3°	1744.5	1733.7	1730.0	1747.2	1744.9
4°	1723.6	1713.6	1710.2	1727.4	1725.5
5°	1694.5	1684.1	1681.8	1698.6	1697.1
6°	1658.7	1650.1	1646.0	1662.8	1659.8
7°	1613.9	1606.0	1601.5	1613.9	1615.3
8°	1555.6	1551.9	1546.6	1559.0	1559.0
9°	1493.6	1490.3	1484.7	1495.9	1495.9
10°	1427.1	1424.9	1418.2	1428.6	1428.6
11°	1354.3	1353.2	1348.4	1356.9	1356.9
12°	1277.8	1280.4	1275.9	1283.4	1280.8
13°	1201.2	1200.1	1200.5	1206.1	1202.0
14°	1114.6	1121.3	1122.5	1125.8	1119.5
15°	1031.7	1040.3	1038.4	1043.3	1035.1
16°	947.0	956.7	956.3	957.4	949.6
17°	867.8	873.4	873.8	872.6	862.9
18°	783.4	791.2	791.2	789.4	777.8
19°	700.9	706.9	711.0	706.9	693.4
20°	626.6	630.7	638.1	627.7	612.8
21°	555.3	559.0	565.3	553.0	536.6
22°	486.9	491.8	497.7	483.6	466.4
23°	423.1	434.3	436.5	417.1	402.5
24°	364.4	377.1	380.9	361.1	345.8
25°	312.2	326.4	334.9	311.8	296.5
26°	267.0	280.8	291.3	268.1	253.5
27°	227.4	242.0	252.8	231.1	217.3
28°	193.4	207.6	218.8	198.7	185.6
29°	168.0	176.2	187.4	170.6	158.7
30°	143.0	152.0	163.9	146.7	136.3
32.5°	98.2	103.1	112.4	101.9	93.7
35°	69.8	72.8	77.3	70.2	65.3
37.5°	49.7	51.2	53.8	49.7	47.0
40°	36.6	37.3	38.5	36.2	34.7
42.5°	27.3	27.6	27.6	26.9	26.1
45°	20.5	20.9	20.5	20.5	19.8
47.5°	14.9	16.1	15.7	15.7	14.6
50°	9.7	11.9	11.9	11.6	9.7
52.5°	6.0	8.2	9.3	8.2	6.3
55°	4.5	5.6	7.1	5.6	4.9
57.5°	4.5	4.5	5.2	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.4	3.7	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)